

CLAIMS

- 1 An image pick-up apparatus adapted for enlarging a predetermined region of picked up image to display it on a display unit,
the image pick-up apparatus comprising:
an image pick-up device for converting optical image of object into an image signal to output the image signal;
hand movement detecting means for detecting hand movement quantity;
image generation region setting means for setting image generation region at the image pick-up device;
enlarged image generation region setting means for setting enlarged image generation region within the image generation region; and
image generating means for generating image of a predetermined size from image signal of the image generation region or the enlarged image generation region to display the image thus generated on the display unit,
wherein the image generation region setting means sets the image generation region within a predetermined region;
the enlarged image generation region setting means sets set position of the enlarged image generation region at a position moved from a predetermined position in accordance with the hand movement quantity; and
the image generation means generates, from image signal of the enlarged image generation region, an image enlarged so as to take a predetermined size to

display the enlarged image on the display unit.

2 The image pick-up apparatus as set forth in claim 1,
 wherein when still picture (image) is picked up, the image generation
region setting means sets the image generation region at a predetermined region.

3 The image pick-up apparatus as set forth in claim 1, further
comprising

 manual focus control means for manually controlling
focal point of image displayed on the display unit,

 wherein when focal point is manually controlled by the manual focus
control means, the image generating means generates, from an image signal of the
enlarged image generation region, an image enlarged so as to take a predetermined
size to display the enlarged image on the display unit.

4 The image pick-up apparatus as set forth in claim 1, further
comprising

 image control signal generating means for generating
an image control signal from an image signal outputted from the image pick-up
device,

 wherein the image control signal generating means is operative so that
when enlarged image is displayed with respect to the display unit, it generates the
image control signal from image signal of the enlarged image generation region.

5 The image pick-up apparatus as set forth in claim 4,

wherein the image control signal is an exposure control signal for controlling brightness of the image.

6 The image pick-up apparatus as set forth in claim 4,
wherein the image control signal is a white balance control signal for controlling white balance of the image.

7 The image pick-up apparatus as set forth in claim 4,
wherein the image control signal is a focus control signal for controlling focal point of the image.

8 The image pick-up apparatus as set forth in claim 1,
wherein the enlarged image generation region setting means sets area of the enlarged image generation region so that it continuously becomes narrow with lapse of time.

9 The image pick-up apparatus as set forth in claim 2,
wherein the enlarged image generation region setting means sets area of the enlarged image generation region so that it discretely becomes narrow with lapse of time when focal point is manually controlled by the manual focus control means.

10 The image pick-up apparatus as set forth in claim 4,
wherein the image pick-up device comprises control signal generation region setting means for setting control signal generation region;
the control signal generation region setting means sets set position of the

control signal generation region at a position moved from a predetermined position in accordance with the hand movement quantity; and

the control signal generating means generates a control signal from an image signal of the control signal generation region.

11 The image pick-up apparatus as set forth in claim 10,
wherein the image control signal is a focus control signal for
controlling focal point of the image.

12 The image pick-up apparatus as set forth in claim 10,
wherein the image control signal is an exposure control signal for
controlling brightness of the image.

13 The image pick-up apparatus as set forth in claim 10,
wherein the image control signal is a white balance control signal for
controlling white balance of the image.